

$^{11}\text{C} \beta^+$ decay 2002Wo02

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|--------------------------|---------|--------------------|------------------------|
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Parent: ^{11}C : E=0.0; $J^\pi=3/2^-$; $T_{1/2}=1221.8$ s 8; $Q(\beta^+)=1982.4$ 10; % β^+ decay=100.0

$^{11}\text{C}-\text{T}_{1/2}$: $T_{1/2}=1221.8$ s 8 = 20.364 min 14. From weighted average of $T_{1/2}=20.334$ min 24 (2002Wo02), 20.382 min 20 (1975Az01), 20.34 min 4 (1964Ka31) and 20.40 min 4 (1969Aw02).

1975Az01: ^{11}C , measured $T_{1/2}$. Calculate log ft.

1975Be28: ^{11}C , measured $T_{1/2}$, β^- -shape spectrum. Deduced $E_\beta(\text{MAX})$, ft, shape factors.

1995Go34: ^{11}C , compiled, reviewed β^- decay asymmetry data.

2000Le02: $^{11}\text{C}(\beta^+)$, measured $T_{1/2}$.

2002Wo02: $^{11}\text{C}(\beta^+)$, (ε), measured E_γ , I_γ , $\beta\gamma$ -coin, $T_{1/2}$.

2004Ni04: $^{11}\text{C}(\varepsilon)$, (β^+), measured $\beta\gamma$ -coin. Deduced activity.

See (1980AJ01) for references; see also (1985AJ01).

[Additional information 1](#).

 ^{11}B Levels

| E(level) | J^π |
|----------|---------|
| 0 | $3/2^-$ |

 ε, β^+ radiations

| E(decay) | E(level) | $I\beta^+{}^\dagger$ | $I\varepsilon{}^\dagger$ | Log ft | $I(\varepsilon + \beta^+){}^\dagger$ | Comments |
|-------------|----------|----------------------|--------------------------|-----------|--------------------------------------|--|
| (1982.4 10) | 0 | 99.7669 25 | 0.2331 25 | 3.5921 19 | 100 | av $E\beta=385.70$ 44; $\varepsilon K=0.002218$ 8; $\varepsilon L=0.0001132$ 4 $I\beta^+$: calculated from $\varepsilon K(\text{exp})/I\beta^+=0.230\times 10^{-2}$ +14-11 and theoretical $\varepsilon K(\text{exp})/\varepsilon L(\text{exp})$ ratio. |

[†] Absolute intensity per 100 decays.